

METHODS AND APPARATUS FOR CT SMOOTHING TO REDUCE ARTIFACTS

ABSTRACT OF THE DISCLOSURE

A method for reconstructing an image of an object includes scanning an object using a computed tomographic (CT) imaging apparatus to acquire projections of the object. A set of thresholds are determined utilizing the projections, and selected smoothing kernels are associated with the thresholds. The method further includes utilizing the smoothing kernels and the projections to produce smoothed projections in accordance with the thresholds and filtering and backprojecting the smoothed projections to generate an image of the object.